August A. Busch Memorial Conservation Area

Powder Valley Conservation Nature Center

Rockwoods Reservation

October is Fire Prevention Month

Making Tracks October 2000 Tool Tracks Volume 00, Number 10

hoosing the right tree is quite simply a process of elimination. First, eliminate trees that won't be happy in a given location. Height and spread, adaptability to the environment, disease and insect resistance, and aesthetics are primary factors to consider.

Tall trees, 50 feet or more, are great. However, under power lines 20-25 foot trees work better. A small yard would be enhanced by 30-40 foot trees. You should ask yourself, "What is the soil underfoot (root) like? Is it compacted?" Even 25-40 year-old subdivisions have intensely poor soil if not improved with organic matter and deep aeration. Consider whether to plant on the hot side of the house or the cool side. If you want the trees for shade or a windbreak to keep cooling/heating costs down, plan, select, and place them to effectively provide these benefits.

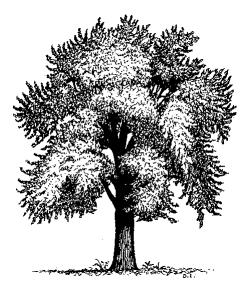
Consideration of tree shape is essential. Trees may appear rounded, vase-shaped, weeping, pyramidal, fastigiate (narrow), upright, etc. Leaf color, size, and shape are important.

A community is made up of trees, shrubs, flowers, grasses, soil, and people. But they should cooperate with each other more than compete. In our landscaping, the trees often suffer, so maintenance is key. Good

maintenance includes area mulching, deep aerating, watering, and possibly fertilizing. Grass mowing, weed control, and shallow watering can be threatening to the trees.

You should take time to inspect your tree planting site. Are there any idiosyncrasies of the site, such as collecting water or road salt that

Right Tree,



Right Space

by Charlotte Schneider, Management Forester would impact your trees? Is it next to a wall which will reflect heat, or above a retaining wall which does not drain? Will there be foot traffic to compact soil or disturb the branches? Do not create hazards to deal with later by planting fast-growing, weak-wooded trees too close to the house, but plan on some pruning and shaping for any tree or shrub. Also, you may want to keep in mind any "bad" habits like dropping fruits. The female ginkgo is a prime example.

The Missouri Department of Conservation (MDC) has a variety of seedling trees and shrubs available. Though small, many of these seedlings have been received by fourth grade students, planted, and grown to become majestic trees. Our order form comes out in mid-November and seedlings can be ordered and shared with friends for fall planting.

Please call MDC for additional information on specific plants, planting techniques, plant health care and related issues.

This mammal can be found throughout Missouri. It is 20-30 inches long and weighs up to 10 pounds.

What Is It?

Making Tracks October 2000 Page 2

News from Conservation Nature Center

RESIDENT ARTISAN **PROGRAM CALENDAR**

October 14 & 15, 2000 St. Louis Weavers Guild Workshop & Demonstration

November 4 & 5, 2000 St. Louis Wood Turners Demonstration

November 18 & 19, 2000 Patricia & Lee Schulte

> Flower Pressing Demonstration

December 2 & 3, 2000 Carol Kaminsky

Greeting Card Workshop & Storytelling

January 13 & 16, 2001 **Corrine Didisheim**

Workshop

February 2001 **Connie Silver-Friedl**

Recycled Paper Valentines Workshop

> March 2001 **Carl Schwarz**

Taxidermy Demonstration

RESIDENT ARTISAN PROGRAM:



Bringing you closer to nature and the arts

by Leslie Drewel, Naturalist

ature holds many benefits to our survival. These resources don't just play a role in the bare necessities of life, but in our need for beauty and expression. The natural beauty around us allows us to slow down from our busy schedules and reflect on our lives. We, at Powder Valley, want to share the intrinsic values of nature and all of its splendor with you. The Resident Artisan Program is one way we educate one another on the many values of nature and empower ourselves through expression. Demonstrations in our lobby and hands-on workshops by resident artists give you the opportunity to explore the many ways you can express yourself. With the speed of technology today, we need to take time to slow down, not only to smell the flowers, but to photograph, paint, or write a poem about them and then share with a friend.

The Resident Artisan Program is here for you! Origami & Piano Hinge Book About once a month, Powder Valley will invite an artist to share his or her craft with you. Not only will you learn about the art, you may learn something new about yourself. Keep your eye out for detailed descriptions of the upcoming demonstrations and workshops in future "Making Tracks."

> All Resident Artisan workshops will require reservations, which begin approximately two weeks prior to the workshop date. As always, we do ask that if you make a reservation and cannot attend a program, please call to cancel as soon as possible, so those on the waiting list can be contacted. Also, if you are more than ten minutes late for a workshop, you will lose your reservation.

11715 Cragwold Road Kirkwood, MO 63122 (314) 301 - 1500

LOCATION: From I-44 east in Kirkwood, take Watson Road, exit and turn north on Geyer Road. Follow Geyer Road 200 yards to Cragwold Road. Go 1 mile west on Cragwold Road.

AREA HOURS:

Daylight Savings Time: 8 a.m. to 8 p.m. Central Standard Time: 8 a.m. to 6 p.m.

NATURE CENTER HOURS:

Open all year, 7 days a week, from 8 a.m. to 5 p.m.

GIFT SHOP HOURS:

Open all year, 7 days a week, from 8 a.m. to 4:30 p.m.

ABOUT THE AREA:

112 acres of forestland and winding creeks, three hiking trails (one wheelchair accessible). Open to visitors free of charge.

This mammal will make its home in a variety of habitats. The den is usually in the ground, but can be located in a stump or cave.

What Is It?

(October Resident Artisan)

ST. LOUIS WEAVERS GUILD

Saturday, October 14 & Sunday, October 15

Sheep-to-Shawl Demonstrations

October 14, 10:00 a.m. - 4:00 p.m. October 15, 12:00 - 4:00 p.m.

Needle Weaving Mini-Tapestry Workshops

1:00 - 3:00 p.m. both days (Reservations are required for workshops only and begin October 3.)

We welcome the St. Louis Weavers Guild. The Guild has been in existence for 75 years and encompasses all types of fiber arts from textile and basket weaving to spinning and knitting. They are the second-oldest weaving guild in the country, second to Boston. These dedicated weavers will demonstrate the entire process of carding, spinning, and weaving fabric from "sheep-to-shawl" in our lobby. The guild will set up a loom so everyone can help weave one rug out of plastic, newspaper, or grocery bags. Enter your name in our drawing and you may win the rug!

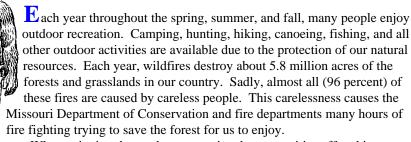
For hands-on folks, there will be workshops Saturday and Sunday from 1:00 to 3:00 p.m. Learn needle weaving and make a small tapestry piece that you can turn into a purse, necklace pouch, or barrette. Bring small beads from home and create something unique! Workshop participants must be at least 12 years old.

Making Tracks October 2000 Page 3

News from

October is Fire Prevention Month

by Rose Ann Edmondson, Administrative Staff Assistant



When enjoying the outdoor recreational opportunities offered in our state, we should all remember the story of the famous fire prevention bear, Smokey. You'll recall he is the small bear cub that survived the 17-acre fire

in New Mexico after he was found clinging to a charred tree limb. Forest rangers, veterinarians, and wardens from the New Mexico Game and Fish Department treated the bear cub's wounds and bandaged his feet. He was nursed back to health by a young girl, Judy Bell, and her family. Shortly after the cub had been found, people started calling him "Smokey." So the small black bear cub helped the rangers tell people to be careful with fire. Telling people to be careful with fire and stopping them from accidentally starting fires is called wildfire prevention. This is why Smokey is known as the fire prevention bear.

Smokey Bear, a living fire prevention symbol, had been discovered. Smokey became so popular over the next few years that even the U.S. Forest Service was amazed as to how he had been adopted by the American people. Soon Smokey was moved to the National Zoo in Washington, D.C., where he completely recovered from his injuries. Smokey has more than four million visitors annually and due to the amount of mail he receives, he even has his own zip code!

Smokey's work is never done! Each year, wildfires continue to burn our forests and grasslands due to careless people. This is why we all need to remember Smokey's message when we are enjoying the many outdoor recreational opportunities we are so fortunate to have in our state. People that want to burn brush, fields, and yard debris in the fall should first be aware of the potential of causing wildfires, check the area burning laws, and check with the local fire department to see if it is safe to burn.

"REMEMBER ... ONLY YOU CAN PREVENT WILDFIRES."

WILDFIRE PREVENTION POSTER CONTEST

October is fire prevention month. There is a wildfire prevention poster contest at Rockwoods Reservation. We invite all children ages 4 - 9 to enter a poster. There will be first, second, and third prizes for three age groups: 4 - 5 year olds, 6 - 7 year olds, and 8 - 9 year olds.

Contest Rules

- ✓ Poster subject must be "Wildfire Prevention."
- ✓Posters should not be over 10"x14" in size.
- ✓Only one poster may be submitted per child. (Previous winners may not enter.)
- ✓ Child's name, address, and phone number should be on the back of the poster.
- ✓ Mail posters to Poster Contest, Forestry Office, 2751 Glencoe Road, Wildwood, MO 63038.
- If you want your poster returned, please note this on the poster when you submit it.
- ✓ Deadline date for posters is October 17, 2000.

Prizes will be awarded at 2:30 p.m. on October 22 at Rockwoods Reservation. If a contest winner cannot attend, prizes can be picked up at Rockwoods or mailed.

2751 Glencoe Road Wildwood, MO 63038 (636) 458 - 2236

LOCATION:

From I-44, take Hwy 109 (Eureka exit) north 4 miles to Woods Avenue; left on Woods Avenue, and then immediately right on Glencoe Road; follow signs. From Hwy 40 (I-64), take Clarkson Road south to Manchester Road; right (west) on Manchester to Hwy 109; left (south) on Highway 109, 2 miles to Woods Avenue; right on Woods Avenue, and then immediately right on Glencoe Road; follow signs. From Manchester Road, take Hwy 109 south 2 miles to Woods Avenue; right on Woods Avenue, and immediately right on Glencoe Road; follow signs.

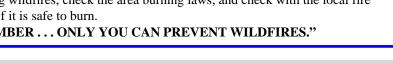
AREA HOURS: Sunrise until 1/2 hour after sunset.

VISITOR CENTER HOURS: Open seven days a week all year, except holidays, from 8 a.m. to 5 p.m.

ABOUT THE AREA:

All facilities are free to the public including:

- ***Education Center with** exhibits and interpretive programs.
- \$1,898 acres of rugged, mostly hardwood forested land interspersed with springs and streams.
- *Two picnic areas (one with charcoal grills) with drinking water, tables, and toilets.
- **Seven trails** (one is selfguided and wheelchair accessible) totaling more than 10 miles.
- *A crawl cave and a pond. Servidence of old mining operations.



How to register for an

OCTOBER

Program

Reservations are required unless otherwise specified. Reservations will be taken Monday through Friday from 8:00 a.m. - 5:00 p.m. Programs are intended for individuals and families only. Groups may inquire for separate programs. If you are unable to attend a program, please call and cancel your reservation as a courtesy to those on our waiting list. Please be prompt. Arrival after 10 minutes may exclude you from the program. Interpreting services are available for people with hearing loss with five days advanced notice.

Rockwoods

For reservations, call (636) 458 - 2236

7 Squirrel Feeder Workshop

Saturday 10:00 - 11:00 a.m. & 12:00 - 1:00 p.m. (Families) You'll have the fun and satisfaction of building squirrels a feeder and learn something about these common critters. Please bring a hammer. (Reservations begin October 7.)

10 Autumn Tree Study

Tuesday 4:00 - 5:30 p.m.

(Ages 8 - 14) How do we get such beautiful leaves in the fall? We will investigate how and why trees turn colors in the fall, as well as learn to identify 10 common trees of Missouri. We will be hiking outdoors, so dress for the weather.

(Reservations begin October 2.)

13 Toddling into Nature: Fun with Smokey BearFriday 10:15 - 11:15 a.m. & 1:15 - 2:15 p.m.

(Ages 3 - 6) Who is Smokey Bear and how did he become our symbol for fire safety? Join us as we tell the story of Smokey Bear and make a craft to take home. (Reservations begin October 2.)

18 Lovely Lady Bugs

Wednesday 1:30 - 3:00 p.m. & 4:00 - 5:30 p.m. (All Ages) Learn all about lady bugs and build a house for them to live in (one per family). Please bring a hammer. This program is both indoors and outdoors, weather permitting.

(Reservations begin October 9.)

BUSCH AREA

For reservations, call (636) 441 - 4554

Unless otherwise specified, all programs are one hour in length.

7 Fall Nature Hike

Saturday 9:00 a.m.

(Families) Join us for a journey through the fall woods. We will look for late-blooming flowers and other fall colors. This trail is not suitable for strollers.

(Reservations begin September 22.)

10 Duck, Duck, Goose

Tuesday 9:30 a.m. & 11:00 a.m. (Ages 3 - 6) What is a duck? What is a goose? How are they different? How are they alike? Come and discover with us! (Reservations begin September 26.)

14 Fish, Fillet, Cook

Saturday 8:30 - 11:30 a.m.
(Ages 7 - 12) Learn how to catch, fillet, and cook fish. Bait and poles will be provided.
Please bring a rag to wipe hands. This program is for 7 -12 year olds only. A parent/guardian

will need to be present to assist the participant. Meet at Lake 2.

(Reservations begin September 29.)

ST. LOUIS WEAVERS GUILD

Saturday, October 14 Sunday, October 15 Powder Valley Nature Center

Demonstrations and Workshops

See page 2 for details.

POWDER VALLEY

For reservations call (314) 301 - 1500

Please limit requests to two programs per month, with only one to include an Age 3 - 6 program.

7 Squish!

Saturday 10:00 - 10:45 a.m.

& 11:00 - 11:45 a.m.

(Ages 6 - 12) We'll use books and puppets and create a story that will help us learn more about wetlands. (Reservations begin September 26.)

7 & 28 Identification of Common Trees

Saturday 10:00 - 11:30 a.m.
(Adults) We will walk one of the trails and identify our common trees. (Reservations begin September 26 and October 17 respectively.)

11 & 25 Missouri Literature

Wednesday 10:00 - 11:30 a.m.

(Adults) This program will include discussion of nature, history, and travel opportunities in the state of Missouri. (Reservations begin September 27 and October 11 respectively.)

11 Beginning Birding

Wednesday 10:30 - 11:15 a.m. (Ages 3 - 6) Come learn how to identify the birds in your backyard for winter. We will make binoculars and hike Tanglevine Trail! (Reservations begin September 27.)

12 Let's Feed the Birds

21 Lovely Lady Bugs

Saturday 12:30 - 3:00 p.m.

(All Ages) Learn all about lady bugs and build a house for them to live in (one per family). Please bring a hammer. This program is both indoors and outdoors, weather permitting.

(Reservations begin October 9.)

22 Fire Prevention

Sunday 1:00 - 4:00 p.m.

(All Ages) Smokey Bear will visit every hour starting at 1:00 p.m. There will be Smokey hats and other fire prevention gifts for the kids. There will be Smokey videos in the classroom. The Wildfire Prevention poster contest winners will receive their prizes at

2:30 p.m. at the Education Center. (No reservations are required.)

22 Meet a Forester

Sunday 1:00 - 4:00 p.m.

(Adults) We will have a forester available to answer tree questions and tell you more about the Centennial Forest program. Also, there will be forestry videos in the classroom. (No reservations are required.)



28 A Walk through History

Saturday 10:00 a.m. - 12:00 p.m.

(Families) Did you know Rockwoods is ranked as one of the best places to hike in the St. Louis area? Did you also know that Rockwoods as we see it today appeared much differently not that long ago?! Join us as we look at the history of this spectacular forest and take an interpretive hike to some of Rockwoods' finest overlooks. Please dress for the weather. This hike is not stroller-accessible. (Reservations begin October 16.)

29 Creepy Crawly Adventure Room

Sunday 12:00 - 3:00 p.m.

(All Ages) Afraid of those creepy, crawly things hanging out in the dark? Come to our adventure room and we'll shed some light on them. (No reservations are required.)

SPECIAL EXHIBIT FOR OCTOBER

Come and see the Centennial Forest and fire prevention exhibits on display in the Rockwoods classroom this month.

17 Bird Walk

Tuesday 9:00 a.m.

(Adults) Join us in search of resident birds and fall migrants. Please bring binoculars and a bird field guide. Please dress for the weather. (Reservations begin October 3.)

18 Going Batty

Wednesday 9:30 a.m. & 11:00 a.m. (Ages 3 - 6) Learn about Missouri's only flying mammals and make a bat craft to take home. (Reservations being October 4.)

21 Fire-ology

Saturday 9:00 - 11:00 a.m.

(Ages 11 and up) Learn how to safely and successfully build and utilize a camp fire for cooking and staying warm. Instruction in survival fire building will also be featured. Please bring a sharp pocketknife if one is owned. (Reservations begin October 4.)

22 Fall Leaf Identification Hike

Sunday 2:00 - 4:00 p.m.

(Families) Join us for a inside program on the importance of trees to our ecosystem. This will be followed by a hike into the woods to identify native Missouri trees in their fall colors. (Reservations begin October 6.)

24 Tales of Tails

Tuesday 9:30 a.m. & 11:00 a.m. (Ages 9 - 12) A tail is a tail is a tail or is it? Learn about animals and their tails. (Reservations begin October 10.)

Mammals Discovery Table

Saturday, October 28 10:00 a.m. - 3:00 p.m.

(All Ages) Come and "discover" Missouri's mammals at this hands-on Discovery Table. (No reservations are required.)

Thursday 10:30 - 11:15 a.m. (Ages 3 - 6) Join us to learn about birds and how to make birdfeeders from recycled materials. (Reservations begin September 28.)

13 Trees in Story & Song

Friday 7:00 - 9:00 p.m. (All Ages) Yes, it is Friday the 13th, but we plan to celebrate our centennial forests around a campfire with soft and light-hearted stories and songs. It will be held indoors in case of inclement weather.

(Reservations begin September 29.)

14 Emmenegger Hike

Saturday 1:00 - 3:00 p.m. (Ages 7 and up) Come and walk the trails at Emmenegger and see the early arrival of fall. Please meet at the new bridge. (Reservations begin October 3.)

24 Beginning Birding

Tuesday 10:30 - 11:15 a.m. (Ages 3 - 6) Come learn how to identify the birds joining you in your backyard for winter. We will make binoculars and hike Tanglevine Trail. (Reservations begin October 10.)

30 Tyke Hike: Getting Ready for Winter

Monday 10:30 - 11:15 a.m. & 1:00 - 1:45 p.m.

(Ages 3 - 6) Let's walk in the woods to find out how plants and animals prepare for cold weather. (Reservations begin October 17.)

LET'S GO TO THE MOVIES!!

Free nature films are shown every Saturday and Sunday. Children's films are shown 10:00 - 11:00 a.m. and 1:00 - 2:00 p.m. Older audiences can enjoy films 11:00 a.m. - 12:00 p.m. and 2:00 - 3:00 p.m. **There will be no films on October 14.** Call for titles at (314) 301-1500.

August A. Busch

Memorial Conservation Area



October is a great month for wildlife viewing!

by Nancy Snider, Interpretive Programs Supervisor



he extensive road system through the Busch Conservation Area is especially conducive to viewing wildlife. You are able to easily travel in forest, prairie, pond, and wetland habitats. An Auto Tour Guide is available at the kiosk as you enter the area, or stop in at the office to pick one up. The Guide will help you find your way through the Busch Area and explain various features that are indicated by stops along the way. Take a drive and watch for deer grazing in the fields near the woodlands. Watch for dabbling ducks on the smaller lakes. Visit the deep water lakes, like Lake 33, to view diving ducks such as buffleheads and scaup. Take a short walk to the viewing blinds on the wetland areas to search for herons and other wading birds. Don't forget to stop at the upland viewing blind, which will be on your left after Stop Four on the Auto Tour. This

blind is located in the woods but lets you view out into a field making it a great place to see turkey and deer.

Although there is so much to see by road, please don't forget the trails! There are seven trails on the Busch Area, ranging in length from two-tenths of a mile to three miles long. The Fallen Oak Trail (.7 mile), which starts in the picnic area near the office, is paved and has a bird viewing blind. A variety of birds visit this feeder and there have been winter sightings of red breasted nuthatches and evening grosbeaks.

There are three trails on Weldon Spring Conservation Area, ranging from about five to about eight miles long. The Lewis (8.2 miles) and Clark Trails (5.3 miles) travel through wooded Missouri river bluffs and provide some of our best opportunities to view fall colors.

2360 Highway D St. Charles, MO 63304 (636) 441 - 4554

LOCATION:

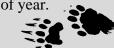
From Hwy 40, take 94 south to Hwy D; turn west on D for approx. 3 miles.

From I-70, take 94/First Capitol exit; turn south on Hwy 94 to Hwy D; turn west on D for approx. 3 miles. The area entrance is on the north side of Hwy D.

HOURS: Area is open from 6 a.m. until 7 p.m.
October 1 through
March 31. See area regulations for special hunt hours.
Fishing hours are 6 a.m.
until 6 p.m. October 1
through March 31. Rental boats are available April 1
through September 30 only.
Office is open Monday
through Friday from 8 a.m.
until 5 p.m. and Saturday
and Sunday from 8 a.m.
until 4 p.m.

ABOUT THE AREA: 6,987 acres with 32 lakes and 40 ponds totaling 526 acres of water for fishing. There are six viewing blinds (two are wheelchair accessible), seven hiking trails totaling 5 miles, picnic area, staffed firearms range, and fishing jetties (some are wheelchair accessible). The area has interpretive programs, exhibits, demonstration sites, and is used by bicyclists.

This month, this mammal fattens up for the winter. It eats plant and animal foods in equal amounts during this time of year.



What Is It?

WHAT'S HAPPENING

THIS MONTH ON THE BUSCH AND WELDON SPRING CONSERVATION AREAS

- There are managed archery hunts for deer and special deer hunts for youths. You must already have applied and your name been drawn to participate.
- Bass fishing should be good especially in shallow water.
- ✓ Try fishing for catfish on the Missouri River. Use the Weldon Spring boat access and fish in the deep water below the dikes.
- Waterfowl migration is occurring. Be sure and visit the lakes and wetlands.

COMING SOON ... TROUT FISHING IN NOVEMBER!!

Local News & Events

EDUCATIONAL RESOURCES

Thursday, October 12 3:00 - 5:00 p.m.

Powder Valley Conservation Nature Center

Here's your chance to explore many of the educational resources of the St. Louis area in one afternoon all under one roof!

The Resource Center Network, an association of local educational institutions, will hold an open house at Powder Valley this month. Meet representatives and obtain informational materials from a variety of groups. Members include the Magic House, WorldWays Children's Museum, Girl Scout Council of Greater St. Louis, and the Missouri Department of Conservation.

Everyone is welcome and no reservations are needed. For more information, call (314) 301-1500.

BUSCH RANGE

Hours for October 2000:

10:00 a.m. - 4:00 p.m. Friday - Tuesday Closed Wednesday & Thursday For more information, call (636) 441 - 4554 ext. 251

HENGES RANGE

Hours for October 2000:

10:00 a.m. - 4:00 p.m. Wednesday - Sunday Closed Monday, Tuesday, Special Events & Holidays For more information, call (636) 938 - 9548

October Natural Events

- ◆ Downy gentians bloom on prairies.
- ♦ Watch for flocks of blue jays flying low.



- ◆ Peak arrival of American wigeon, pintail, and gadwall ducks.
- ◆ New England asters bloom, providing nectar for late-migrating monarchs.



- ◆ Beginning of peak fall color in maples, oaks, and hickories.
- ◆ Beavers are active during the day, gathering winter food.
- ◆ Katydids sing in the trees at night.
- ◆ Peak of snow goose population at wetland areas.
- Bullfrogs begin hibernation.

Visit us on the Internet: www.conservation.state.mo.us





Page 8 Making Tracks October 2000

Fish Stocking Hotline (636) 441-8014

2000 Deer and Turkey Seasons

Fall Firearms Turkey

October 9 - 22



Archery Deer and Turkey

October 1 - November 10 & November 22 - January 15, 2001

Firearms Deer

November Portion: November 11 - 21 Muzzeloader Portion: December 2 - 10 January Extension: January 6 - 9, 2001 (only in Units 1-17, 20, 22, 23, 24, 58, and 59.)

For more information on the upcoming deer and turkey seasons, pick up a free 2000 Fall Deer and Turkey Hunting Information booklet at your nearest Conservation Department office.

Volunteer Milestones

Thanks for all your effort and help!

Powder Valley Nature Center Charlie Gentry......200 hours Bill Heady......200 hours Linda Moretto.....500 hours Gil Rosemann....1,200 hours

Gil Rosemann......1,200 hours Joan Stokes.......400 hours David Winkler......200 hours Marjorie Yamada..1,400 hours

Busch Conservation Area

Karen Hencel	.1,600	hours
Bob McGregor		
Marv Staloch	.1,200	hours

Rockwoods Reservation

Jan Castanis	400	hours
Mary Demmitt	300	hours
Amber Edwards	300	hours
Kathy Edwards	1,300	hours
Glenda Myers	1,100	hours
Jerry Rinaldi	1,100	hours
George Triplett	1,700	hours
Jim Westbury	.1700	hours

